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A lifting apparatus for a two-leaf folding flap

Claims

1. A lifting apparatus for a two-leaf folding flap whose upper leaf (3) is hinged to a top or partition wall (1) of a cupboard around a horizontal first axle (2) and whose lower leaf (5) is pivotally connected to the upper leaf (3) around a second axle (4) parallel to the first axle (2),

comprising at least one two-armed lever (13, 30, 56) which is pivotally mounted to a side body part around a horizontal pivot axle (12) and whose longer arm (15) is linked to the lower leaf (5); and

a compression spring element (20) whose one end is pivotally connected to the body part and whose other end is pivotally connected to the lever (13, 30, 56);

characterised in that

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the lever (13, 30, 56) is guided in a longitudinally displaceable manner on its pivot axle (12) and the shorter lever arm (16) is guided in a cam guide (9) fixed to the body via a slide block or a roller (17).

2. A lifting apparatus in accordance with claim 1, wherein the upper end section (10) of the cam guide (9) is inclined at an acute angle into the inside of the cupboard and the adjacent section (11) of the cam guide (9) extends in curved form around the pivot axle (12).
3. A lifting apparatus in accordance with either of claims 1 or 2, wherein the pivot axle (12) penetrates an elongate opening of the lever (13, 30).
4. A lifting apparatus in accordance with any of claims 1 to 3, wherein the longer lever arm (56) consists of two parts (31, 32) which are displaceable relative to one another and fixable to one another.
5. A lifting apparatus in accordance with any of claims 1 to 4, wherein the spring element (20) is hinged to the longer lever arm (31, 32).
6. A lifting apparatus in accordance with any of claims 1 to 4, wherein the lever (13) is provided in the region of the pivot axle (12) with a third arm (19) to which the spring element (20) is hinged.
7. A lifting apparatus in accordance with any of claims 1 to 4, wherein the spring element (20) is hinged to one end of a link (53) whose other end is linked to the body part and wherein a rod (54) is hinged like a connecting rod to the link (53) – between its joints – with its other end being linked to the lever or to a third arm of the lever.

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8. A lifting apparatus in accordance with any of claims 1 to 7, wherein the longitudinal axis of the spring element (20) or of the rod (54) sweeps over the pivot axle (12) of the lever between the closed position and the open position of the folding flap.
9. A lifting apparatus in accordance with any of claim 1 to 8, wherein the spring element is a gas compression spring (20).

New Claims 10-20

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